

AMENDMENTS TO THE CLAIMS

Please cancel claims 12, 14 and 16 without prejudice:

1. (Previously Presented) A system for automatic generation of a card-based formatting object description, comprising:

a presentation style transformer for receiving a card display schema and a card layout style specification and for generating a card-based presentation specification, wherein said presentation style transformer comprises a resource generator for receiving said card layout style specification and said card display schema and providing presentation resource declarations of said card-based presentation specification, and a style proceduralizer for translating said card layout style specification into procedural card content mapping rules of said card-based presentation specification; and

a card-based presentation generator connected to said presentation style transformer for receiving said card-based presentation specification and markup language document content and for providing an abstract description of formatting directives of a presentation document.

2-3. (Cancelled)

4. (Previously Presented) The system for automatic generation of said card-based formatting object description, as claimed in claim 4 wherein said style proceduralizer comprises:

a card-based context tree builder;

a content node path walker connected to said card-based context tree building; and

a content mapping rule generator connected to said content node path walker.

5. (Previously Presented) The system for automatic generation of said card-based formatting object description, as claimed in claim 1 wherein said card based presentation generator comprises:

a presentation construct mapper;

a card-based Document Style Semantics and Specification Language (DSSSL) processor connected to said presentation construct mapper; and

a Formatting Object Descriptions (FOD) converter connected to said card-based Document Style Semantic Language processor.

6. (Previously Presented) A system for automatic generation of a card-based formatting object description, comprising:

presentation style transformer means for receiving a card layout style specification and a card display schema and for providing a card-based presentation specification, wherein said presentation style transformer means comprises resource generator means for receiving said card layout style specification and said card display schema and for providing presentation resource declarations of said card-based presentation specification, and style proceduralizer means for translating said card layout style specification into procedural card content mapping rules of said card-based presentation specification; and

card-based presentation generator means connected to said presentation style transformer means for receiving said card-based presentation specification and markup language document content and for providing an abstract description of formatting directives of a presentation document.

7. (Cancelled)

8. (Previously Presented) The system for automatic generation of said card-based formatting object description, as claimed in claim 6 wherein said style proceduralizer means comprises:

card-based context tree builder means for receiving said card layout style specification and for providing a context tree;

content node path walker means connected to said card-based context tree builder means for receiving said context tree and for providing context paths; and

content mapping rule generator means connected to said content node path walker means for receiving said context paths and said card display schema and for providing said card-based presentation specification.

9. (Previously Presented) The system for automatic generation of said card-based formatting object description, as claimed in claim 8 wherein said context tree captures content mapping rule context for making an efficient generation process of procedural rule mappings in Card-based Presentation Specification (CPS).

10. (Previously Presented) The system for automatic generation of said card-based formatting object description, as claimed in claim 6 wherein said card based presentation generator means comprises:

presentation construct mapper means for receiving said card-based presentation specification and for providing card-based Document Style Semantics and Specification Language (DSSSL) style specifications;

card-based Document Style Semantics and Specification Language (DSSSL) processor means connected to said presentation construct mapper means for receiving said card-based Document Style Semantics and Specification Language (DSSSL) style specifications and said markup language document content and for providing a card-based document flow object tree; and

card-based Formatting Object Descriptions (FOD) converter means connected to said card-based Document Style Semantics and Specification Language (DSSSL) processor means for receiving said card-based document flow object tree and for providing said abstract description of formatting directives.

11. (Previously Presented) The system for automatic generation of said card-based formatting object description, as claimed in claim 10 wherein said card-based document flow object tree comprises:

a specification of a sequence of card-based Formatting Object Descriptions (FOD) flow objects.

12-16. (Cancelled)

17. (Previously Presented) The system for automatic generation of said card-based formatting object description, as claimed in claim 1, wherein said card-based presentation generator further receives non-textual document content.

18. (Previously Presented) The system for automatic generation of said card-based formatting object description, as claimed in claim 1, wherein said abstract description of formatting directives of said presentation document comprises a sequence of formatting object description flow object instances.

19. (Previously Presented) The system for automatic generation of said card-based formatting object description, as claimed in claim 6, wherein said card-based presentation generator further receives non-textual document content.

20. (Previously Presented) The system for automatic generation of said card-based formatting object description, as claimed in claim 6, wherein said abstract description of formatting directives of said presentation document comprises a sequence of formatting object description flow object instances.